E-LynX™ VD-55M

Tactical multi-band, multi-waveform SDR for mobile forces

- **Secure and powerful SDR platform:** Dual RF channels
- **Complete NATO frequency coverage:** VHF-UHF and L bands
- **Extended networking coverage**
- **Advanced techniques:** Unique multi-hop concurrent flooding
- **Robust communication:** Unprecedented immunity, information security and GNSS-independent self-synchronization
- **Integrated services:** Simultaneous high-quality voice sessions, IP data, BFT, and video in a single network
- **Seamless connectivity:** Interfaces for voice and data, ensuring smooth integration with customer devices
- **Innovative user interface:** Modern, information-rich design

Elbit Systems™
C4I and Cyber

E-LynX™ VD-55M

Multi-role, Multi-waveform

Combat-proven solution providing a dynamic secure network adaptable to a variety of terrains and missions.

Superior Performance

Seamless communication and situational awareness with superior RF performance and minimal SWaP.

Member of E-LynX™ SDR Family

Delivers advanced multi-domain networking solutions, meeting the complex communication and connectivity needs of modern battlefields across all echelons and operational scenarios.

Technical Specifications

General	
Frequency range	30-512 MHz, 960MHz-1.8GHz (L-band optional)
Software environment	SCA 2.2.2
Radio presets	100 configurable presets
GNSS	Internal receiver for location report and 1PPS, supporting multiple constellations
Interfaces	Ethernet, USB, RS-232, analog audio, external communication bearers (Cellular, Satcom, etc.)
Operation	• HMI with icon-based operation via 2.8" graphic color display and keypad • Fast access to both radio configuration and network status, including visual network-topology • Supported also via network management and remote operation
Extensive software tools	Configuration, planning and management, network control, security (including keys generation and loading), network simulation
Immune & Secure Communication	
ECCM	Robust frequency hopping combined with FEC and interleaver for improved jamming resistance
Security	• COMSEC and TRANSEC utilizing AES-128/256 • Red/Black design • Anti-tamper and emergency erase • Secured management via SNMPv3
Power	
Power input	Supporting 20-33V
Standard	MIL-STD-1275E
Physical	
Dimensions (HxWxD)	160x342x252mm
Weight	16.3kg

Waveforms	
Networking	Multi-hop Mobile Ad-Hoc IP Network (MANET) featuring robust routing technologies: concurrent flooding and store & forward, multi-hop (up to 4 narrowband & 8 wideband), self-forming, self-healing
Services	Simultaneous voice (analog and external VoIP), IP data, IP video and BFT/PLI Multiple voice groups in a single net
Network synchronization	Autonomous, no master station, no single point of failure, no reliance on GNSS receiver or any external signal
Elbit Systems waveform	• Narrowband MANET • Wideband high capacity MANET • Wideband airborne MANET • Soldier radio MANET • Combat net radio
Standard waveforms	STANAG 4204, STANAG 4205
Sovereign waveform option	Supports sovereign waveform porting
Transmitter and Receiver Performance	
Output power	For both transceivers: V/U: Low 0.25W, Med 5W, High 50W L: Low 0.25W, Med 5W, High 10W
Channel bandwidth	25kHz, 50kHz, 0.5MHz, 1MHz, 2MHz, 4MHz
Frequency stability	±0.04ppm
Sensitivity	-116dBm @ 12dB SINAD
Spurious suppression	80dB above MDS
Harmonic suppression	HD2/3 > -20dBm, HD4 > -80dBc
Output protection	Open and short-circuit
Qualifications	
Environmental	MIL-STD-810G
EMC	MIL-STD-461F

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